

**METHOD AND STRUCTURE FOR LOCKING NUT  
WITH DEFORMABLE MEMBER**

**ABSTRACT OF THE DISCLOSURE**

5           A structure and method for a locking nut with a deformable member is provided.  
The locking nut has an elongated body relative to a comparable standard non-locking  
nut, allowing the nut to provide a standard length of thread for engaging bolt members  
while also defining a void for carrying the deformable locking member. The void has a  
10       forged side-wall structure that substantially engages the locking member within the void  
while shipping or handling the lock nut. The locking member deforms and flows into  
thread areas, thereby providing locking and vibration dampening functions, and also  
deforms or flows into the side-wall structures, thereby enabling the lock nut to impart  
sufficient frictional forces to the member to remove the deformed member from an  
15       assembly when the nut is removed. The locking forces imparted to the structure by the  
member may be varied and, therefore, increased by user-applied forces.

10090283-030402